

## Tessellation 28 (Q)

Suite: Tessellation Party!

by Arya Akhavan (November 2012)

Angles for R.I. = 1.540

46 + 10 girdles = 56 facets

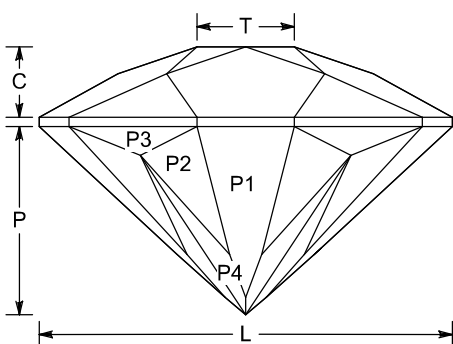
5-fold, mirror-image symmetry

80 index

L/W = 1.051 T/W = 0.248 U/W = 0.236

P/W = 0.478 C/W = 0.178

Vol./W<sup>3</sup> = 0.225



## PAVILION

P1	43.47°	80-16-32-48-64	Cut to centerpoint.
P2	43.00°	05-11-21-27-37- 43-53-59-69-75	Meet at culet.
G1	90.00°	80-16-32-48-64	Set stone size.
G2	90.00°	08-24-40-56-72	Meet P1, P2, G1
P3	66.11°	08-24-40-56-72	Level girdle.
P4	42.00°	06-10-22-26-38- 42-54-58-70-74	Meet P2, P3

## CROWN

C1	37.03°	08-24-40-56-72	Set girdle width.
C2	25.00°	80-16-32-48-64	Level girdle.
C3	16.08°	08-24-40-56-72	Meet C1, C2
T	0.00°	Table	Meet C2, C3

And now I'm back to fun with pentagons! Pentagons in these tessellation-style crowns are surprisingly hard to get to work properly. This was probably one of the easiest variants to write, with its cool little star in the pavilion. Works in materials from quartz to CZ (RI = 1.54 - 2.16) with no changes, but I prefer it in tanzanite.

Suggested size = 6-12 mm

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